

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D1	2972140	14-Feb-1961	HIRSCH			
	D2	3157853	17-Nov-1964	HIRSCH			
	D3	3220121	30-Nov-1965	CUTLER			
	D4	3497668	24-Feb-1970	HIRSCH			
	D5	3517446	30-Jun-1970	CORLYON et al.			
	D6	3623064	23-Nov-1971	KAGAN			
	D7	3875488	1-Apr-1975	CROCKER et al			
	D8	3902687	2-Sep-1975	HIGHTOWER			
	D9	3903614	9-Sep-1975	DIAMOND et al			
	D10	3911416	7-Oct-1975	FEDER			
	D11	3919691	11-Nov-1975	NOLL			
	D12	3923166	2-Dec-1975	FLETCHER et al			
	D13	4023290	17-May-1977	JOSEPHSON			
	D14	4101884	18-Jul-1978	BENTON, Jr			
	D15	4108146	22-Aug-1978	Golden			
	D16	4108164	22-Aug-1978	HALL, Sr.			
	D17	4127752	28-Nov-1978	LOWTHORP			
	D18	4160508	10-Jul-1979	SALISBURY			
	D19	4236325	2-Dec-1980	HALL et al			
	D20	4242823	6-Jan-1981	BRUNO			
	D21	4262549	21-Apr-1981	SCHWELLENBACH			
	D22	4333070	1-Jun-1982	BARNES			
	D23	4334280	8-Jun-1982	MCDONALD			
	D24	4398889	16-Aug-1983	LAM et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 1 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D25	4414537	8-Nov-1983	GRIMES			
	D26	4414984	15-Nov-1983	ZARUDIANSKY			
	D27	4436188	13-Mar-1984	JONES			
	D28	4464117	7-Aug-1984	FOREST			
	D29	4477043	16-Oct-1984	REPPERGER			
	D30	4484179	20-Nov-1984	KASDAY			
	D31	4484191	20-Nov-1984	VAVRA			
	D32	4513235	23-Apr-1985	ACKLAM et al			
	D33	4542375	17-Sep-1985	ALLES et al			
	D34	4545023	1-Oct-1985	MIZZI			
	D35	4550221	29-Oct-1985	MABUSTH			
	D36	4557275	10-Dec-1985	DEMPSEY, JR			
	D37	4560983	24-Dec-1985	WILLIAMS			
	D38	4581491	8-Apr-1986	BOOTHROYD			
	D39	4584625	22-Apr-1986	KELLOGG			
	D40	4599070	8-Jul-1986	HLADKY et al			
	D41	4603284	29-Jul-1986	PERZLEY			
	D42	4604016	5-Aug-1986	JOYCE			
	D43	4689449	25-Aug-1987	ROSEN			
	D44	4692756	8-Sep-1987	CLARK			
	D45	4706294	10-Nov-1987	OUCHIDA			
	D46	4708656	24-Nov-1987	DE VRIES et al			
	D47	4713007	15-Dec-1987	ALBAN			
	D48	4715235	29-Dec-1987	FUKUI et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 2 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D49	4757453	12-Jul-1988	NASIFF			
	D50	4758165	19-Jul-1988	TIEMAN et al			
	D51	4763356	9-Aug-1988	DAY, JR et al			
	D52	4772205	20-Sep-1988	CHLUMSKY et al			
	D53	4782327	1-Nov-1988	KLEY et al			
	D54	4791416	13-Dec-1988	ADLER			
	D55	4794384	27-Dec-1988	JACKSON			
	D56	4794392	27-Dec-1988	SELINKO			
	D57	4795296	3-Jan-1989	JAU			
	D58	4800721	31-Jan-1989	CEMENSKA et al			
	D59	4821030	11-Apr-1989	BATSON et al			
	D60	4823634	24-Apr-1989	CULVER			
	D61	4837734	6-Jun-1989	ICHIKAWA et al			
	D62	4839838	13-Jun-1989	LABICHE et al			
	D63	4851820	25-Jul-1989	FERNANDEZ			
	D64	4853874	1-Aug-1989	IWAMOTO et al			
	D65	4861269	29-Aug-1989	MEENEN, JR.			
	D66	4868549	19-Sep-1989	AFFINITO et al.			
	D67	4871992	3-Oct-1989	PETERSON			
	D68	4885565	5-Dec-1989	EMBACH			
	D69	4891764	2-Jan-1990	MCINTOSH			
	D70	4896554	30-Jan-1990	CULVER			
	D71	4906843	6-Mar-1990	JONES et al.			
	D72	4914624	3-Apr-1990	DUNTHORN			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 3 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D73	4926879	22-May-1990	SEVRAIN et al			
	D74	4930770	5-Jun-1990	BAKER			
	D75	4934694	19-Jun-1990	MCINTOSH			
	D76	4935728	19-Jun-1990	KLEY			
	D77	4949119	14-Aug-1990	MONCRIEF et al.			
	D78	4961038	2-Oct-1990	MACMINN			
	D79	4977298	11-Dec-1990	FUJIYAMA			
	D80	4983901	8-Jan-1991	LEHMER			
	D81	5004391	2-Apr-1991	BURDEA			
	D82	5007300	16-Apr-1991	SIVA			
	D83	5019761	28-May-1991	KRAFT			
	D84	5022384	11-Jun-1991	FREELS			
	D85	5022407	11-Jun-1991	HORCH et al			
	D86	5035242	30-Jul-1991	FRANKLIN			
	D87	5038089	6-Aug-1991	SZAKALY			
	D88	5044956	3-Sep-1991	BEHENSKY et al.			
	D89	5065145	12-Nov-1991	PURCELL			
	D90	5076517	31-Dec-1991	FERRANTI et al			
	D91	5078152	7-Jan-1992	BOND			
	D92	5095303	10-Mar-1992	CLARK et al.			
	D93	5103404	7-Apr-1992	MCINTOSH			
	D94	5107080	21-Apr-1992	ROSEN			
	D95	5107262	21-Apr-1992	CADOZ et al.			
	D96	5116180	26-May-1992	FUNG et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 4 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D97	5121091	9-Jun-1992	FUJIYAMA			
	D98	5133076	21-Jul-1992	HAWKINS et al			
	D99	5139261	18-Aug-1992	OPENIANO			
	D100	5143505	1-Sep-1992	BURDEA et al			
	D101	5146566	8-Sep-1992	HOLLIS, JR. et al.			
	D102	5159159	27-Oct-1992	ASHER			
	D103	5165897	24-Nov-1992	JOHNSON			
	D104	5175459	29-Dec-1992	DANIAL et al			
	D105	5184319	2-Feb-1993	KRAMER			
	D106	5184868	9-Feb-1993	NISHIYAMA			
	D107	5185561	9-Feb-1993	GOOD et al.			
	D108	5186629	16-Feb-1993	ROHEN			
	D109	5186695	16-Feb-1993	MANGSETH et al			
	D110	5189355	23-Feb-1993	LARKINS et al.			
	D111	5193963	16-Mar-1993	MCAFFEE et al.			
	D112	5197003	23-Mar-1993	MONCRIEF et al.			
	D113	5203563	20-Apr-1993	LOPER, III			
	D114	5212473	18-May-1993	LOUIS			
	D115	5212473	18-May-1993	LOUIS			
	D116	5220260	15-Jun-1993	SCHULER			
	D117	5223658	29-Jun-1993	SUZUKI			
	D118	5223776	29-Jun-1993	RADKE et al.			
	D119	5235868	17-Aug-1993	CULVER			
	D120	5237327	17-Aug-1993	SAITOH et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 5 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D121	5240417	31-Aug-1993	SMITHSON et al			
	D122	5262777	16-Nov-1993	LOW et al			
	D123	5264768	23-Nov-1993	GREGORY et al.			
	D124	5270710	14-Dec-1993	GAULTIER et al			
	D125	5271290	21-Dec-1993	FISCHER			
	D126	5275174	4-Jan-1994	COOK			
	D127	5275565	4-Jan-1994	MONCRIEF			
	D128	5283970	8-Feb-1994	AIGNER			
	D129	5286203	15-Feb-1994	FULLER et al			
	D130	5296871	22-Mar-1994	PALEY			
	D131	5299810	5-Apr-1994	PIERCE			
	D132	5302132	12-Apr-1994	CORDER			
	D133	5309140	3-May-1994	EVERETT			
	D134	5313230	17-May-1994	VENOLIA et al.			
	D135	5316017	31-May-1994	EDWARDS et al			
	D136	5334027	2-Aug-1994	WHERLOCK			
	D137	5341459	23-Aug-1994	BACKES			
	D138	5354162	11-Oct-1994	BURDEA et al.			
	D139	5355148	11-Oct-1994	ANDERSON			
	D140	5376948	27-Dec-1994	ROBERTS et al			
	D141	5381080	10-Jan-1995	SCHNELL et al.			
	D142	5389849	14-Feb-1995	ASANO et al			
	D143	5389849	14-Feb-1995	ASANO et al.			
	D144	5389865	14-Feb-1995	JACOBUS et al.			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 6 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D145	5396266	7-Mar-1995	BRIMHALL			
	D146	5398044	14-Mar-1995	HILL			
	D147	5399091	21-Mar-1995	MITSUMOTO			
	D148	5405152	11-Apr-1995	KATANICS et al.			
	D149	5414337	9-May-1995	SCHULER			
	D150	5436622	25-Jul-1995	GUTMAN et al			
	D151	5437607	1-Aug-1995	TAYLOR			
	D152	5451924	19-Sep-1995	MASSIMINO et al.			
	D153	5457479	10-Oct-1995	CHENG			
	D154	5459382	17-Oct-1995	JACOBUS et al.			
	D155	5461711	24-Oct-1995	WANG et al			
	D156	5466213	14-Nov-1995	HOGAN			
	D157	5471571	28-Nov-1995	SMITH et al.			
	D158	5473235	5-Dec-1995	LANCE et al.			
	D159	5473344	5-Dec-1995	BACON et al.			
	D160	5491477	13-Feb-1996	CLARK et al.			
	D161	5506605	9-Apr-1996	PALEY			
	D162	5512919	30-Apr-1996	ARAKI			
	D163	5513100	30-Apr-1996	PARKER et al.			
	D164	5521336	28-May-1996	BUCHANAN et al			
	D165	5530455	25-Jun-1996	GILLICK et al.			
	D166	5542672	6-Aug-1996	MEREDITH			
	D167	5547382	20-Aug-1996	YAMASKI			
	D168	5557365	17-Sep-1996	OHSAWA			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 7 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D169	5562707	8-Oct-1996	PROCHAZKA et al			
	D170	5563632	8-Oct-1996	ROBERTS			
	D171	5565887	15-Oct-1996	MCCAMBRIDGE et al.			
	D172	5575761	19-Nov-1996	HAJIANPOUR			
	D173	5576727	19-Nov-1996	ROSENBERG et al.			
	D174	5577981	26-Nov-1996	JARVIK			
	D175	5580251	3-Dec-1996	GILKES et al			
	D176	5583407	10-Dec-1996	YAMAGUCHI			
	D177	5587937	24-Dec-1996	MASSIE et al.			
	D178	5589828	31-Dec-1996	ARMSTRONG			
	D179	5589854	31-Dec-1996	TSAI			
	D180	5591082	7-Jan-1997	JENSEN et al.			
	D181	5596347	21-Jan-1997	ROBERTSON et al.			
	D182	5600777	4-Feb-1997	WANG et al			
	D183	5619180	8-Apr-1997	MASSIMINO et al.			
	D184	5625576	29-Apr-1997	MASSIE et al			
	D185	5629594	13-May-1997	JACOBUS et al.			
	D186	5638060	10-Jun-1997	KATAOKA et al			
	D187	5642469	24-Jun-1997	HANNAFORD et al.			
	D188	5643087	1-Jul-1997	MARCUS et al.			
	D189	5656901	12-Aug-1997	KURITA			
	D190	5666138	9-Sep-1997	CULVER			
	D191	5666473	9-Sep-1997	WALLACE			
	D192	5670755	23-Sep-1997	KWON			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified) SHEET 8 OF 28	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D193	5690582	25-Nov-1997	ULRICH et al.			
	D194	5691747	25-Nov-1997	AMANO			
	D195	5691898	25-Nov-1997	ROSENBERG et al			
	D196	5694013	2-Dec-1997	STEWART et al.			
	D197	5699059	16-Dec-1997	HILLER			
	D198	5709219	20-Jan-1998	CHEN et			
	D199	5714978	3-Feb-1998	YAMANAKA			
	D200	5719561	17-Feb-1998	GONZALES			
	D201	5721566	24-Feb-1998	ROSENBERG et al.			
	D202	5724106	3-Mar-1998	AUTRY et al.			
	D203	5724278	3-Mar-1998	OHGOSE et al.			
	D204	5729249	17-Mar-1998	YASUTAKE			
	D205	5731804	24-Mar-1998	ROSENBERG			
	D206	5732347	24-Mar-1998	BARTLE et al			
	D207	5734373	31-Mar-1998	ROSENBERG et al.			
	D208	5736978	7-Apr-1998	HASSER et al			
	D209	5739811	14-Apr-1998	ROSENBERG et al			
	D210	5742278	21-Apr-1998	CHEN et al.			
	D211	5745715	28-Apr-1998	PICKOVER et al.			
	D212	5754023	19-May-1998	ROSTON et al			
	D213	5755577	26-May-1998	GILLIO			
	D214	5757358	26-May-1998	OSGA			
	D215	5760764	2-Jun-1998	MARTINELLI			
	D216	5766016	16-Jun-1998	SINCLAIR			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 9 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D217	5767457	16-Jun-1998	GERPHEIDE et al			
	D218	5767839	16-Jun-1998	ROSENBERG			
	D219	5769640	23-Jun-1998	JACOBUS et al.			
	D220	5771037	23-Jun-1998	JACKSON			
	D221	5781172	14-Jul-1998	ENGEL et al			
	D222	5784052	21-Jul-1998	KEYSON			
	D223	5785630	28-Jul-1998	BOBICK et al			
	D224	5790108	4-Aug-1998	SALCUDEAN			
	D225	5802353	1-Sep-1998	AVILA et al.			
	D226	5804780	8-Sep-1998	BARTHA			
	D227	5805140	8-Sep-1998	ROSENBERG et al.			
	D228	5805165	8-Sep-1998	THORNE, III et al.			
	D229	5805416	8-Sep-1998	FRIEND et al			
	D230	5808601	15-Sep-1998	LEAH et al.			
	D231	5808603	15-Sep-1998	CHEN			
	D232	5821921	13-Oct-1998	OSBORN et al.			
	D233	5823876	20-Oct-1998	UNBEHAND			
	D234	5825308	20-Oct-1998	ROSENBERG			
	D235	5828197	27-Oct-1998	MARTIN			
	D236	5828364	27-Oct-1998	SIDDIQUI			
	D237	5831408	3-Nov-1998	JACOBUS et al.			
	D238	5832386	3-Nov-1998	NOJIMA et al			
	D239	5835080	10-Nov-1998	BEETSON etl al			
	D240	5844392	1-Dec-1998	PEURACH et al.			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 10 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D241	5844506	1-Dec-1998	BINSTEAD			
	D242	5877748	2-Mar-1999	REDLICH			
	D243	5880714	9-Mar-1999	ROSENBERG et al.			
	D244	5887995	30-Mar-1999	HOLEHAN			
	D245	5889236	30-Mar-1999	GILLESPIE et al			
	D246	5889670	30-Mar-1999	SCHULER et al.			
	D247	5896125	20-Apr-1999	NIEDZWIECKI			
	D248	5897437	27-Apr-1999	NISHIUMI et al.			
	D249	5903257	11-May-1999	NISHIUMI et al.			
	D250	5912661	15-Jun-1999	SIDDIQUI			
	D251	5914705	22-Jun-1999	JOHNSON et al.			
	D252	5914708	22-Jun-1999	LEGRANGE et al.			
	D253	5929846	27-Jul-1999	ROSENBERG et al.			
	D254	5942733	24-Aug-1999	ALLEN et al			
	D255	5943044	24-Aug-1999	MARTINELLI et al			
	D256	5944151	31-Aug-1999	JAKOBS et al.			
	D257	5953413	14-Sep-1999	PEYER et al			
	D258	5956016	21-Sep-1999	KUENZNER et al			
	D259	5959613	28-Sep-1999	ROSENBERG et al.			
	D260	5973670	26-Oct-1999	BARBER et al			
	D261	5973689	26-Oct-1999	GALLERY			
	D262	5977867	2-Nov-1999	BLOUIN			
	D263	5977867	2-Nov-1999	BLOUIN			
	D264	5982304	9-Nov-1999	SELKER et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 11 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D265	5984785	16-Nov-1999	TAKEDA et al			
	D266	5986643	16-Nov-1999	HARVILL et al			
	D267	5988902	23-Nov-1999	HOLEHAN			
	D268	5990869	23-Nov-1999	KUBICA et al.			
	D269	5999168	7-Dec-1999	ROSENBERG et al			
	D270	6001014	14-Dec-1999	OGATA et al			
	D271	6004134	21-Dec-1999	MARCUS et al.			
	D272	6005551	21-Dec-1999	OSBORNE et al			
	D273	6008800	28-Dec-1999	PRYOR			
	D274	6020876	1-Feb-2000	ROSENBERG et al			
	D275	6024576	15-Feb-2000	BEVIRT et al.			
	D276	6028531	22-Feb-2000	WANDERLICH			
	D277	6037927	14-Mar-2000	ROSENBERG			
	D278	6061004	9-May-2000	ROSENBERG			
	D279	6067081	23-May-2000	HAHLGANSS et al			
	D280	6072475	6-Jun-2000	VAN KETWICH et al			
	D281	6081536	27-Jun-2000	GORSSUCH et al			
	D282	6088017	11-Jul-2000	TREMBLAY et al.			
	D283	6088019	11-Jul-2000	ROSENBERG			
	D284	6094565	25-Jul-2000	ALBERTH et al			
	D285	6100874	8-Aug-2000	SCHENA et al			
	D286	6102803	15-Aug-2000	TAKEDA et al.			
	D287	6110130	29-Aug-2000	KRAMER			
	D288	6111577	29-Aug-2000	ZILLES et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 12 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D289	6118435	12-Sep-2000	FUJITA et al			
	D290	6125264	26-Sep-2000	WATANABE et al			
	D291	6125385	26-Sep-2000	WIES et al			
	D292	6128006	3-Oct-2000	ROSENBERG			
	D293	6140987	31-Oct-2000	STEIN et al			
	D294	6147422	14-Nov-2000	DELSON et al			
	D295	6147674	14-Nov-2000	ROSENBERG et al			
	D296	6151332	21-Nov-2000	GORSUCH et al			
	D297	6154201	28-Nov-2000	LEVIN et al			
	D298	6160489	12-Dec-2000	PERRY et al			
	D299	6166723	26-Dec-2000	SCHENA et al			
	D300	6171191	9-Jan-2001	OGATA et al			
	D301	6178157	23-Jan-2001	BERG et al			
	D302	6184868	6-Feb-2001	SHAHIOIAN			
	D303	6198206	6-Mar-2001	SAARMAA et al			
	D304	6215778	10-Apr-2001	LOMP et al			
	D305	6218966	17-Apr-2001	GOODWIN et al			
	D306	6219034	17-Apr-2001	ELBING et al			
	D307	6236647	22-May-2001	AMALFITANO			
	D308	6239790	29-May-2001	MARTINELLI et al			
	D309	6243080	5-Jun-2001	MOLNE			
	D310	6262717	17-Jul-2001	DONOHUE et al			
	D311	6300936	9-Oct-2001	BRAUN et al			
	D312	6307465	23-Oct-2001	KAYMA et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 13 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D313	6323846	27-Nov-2001	WESTERMAN et al			
	D314	6326901	4-Dec-2001	GONZALES			
	D315	6332075	18-Dec-2001	VERDONK			
	D316	6373463	16-Apr-2002	BEEKS			
	D317	6388655	14-May-2002	LEUNG			
	D318	6388999	14-May-2002	GORSUCH et al			
	D319	6411198	25-Jun-2002	HIRAI et al			
	D320	6411276	25-Jun-2002	BRAUN et al			
	D321	6414674	2-Jul-2002	KAMPER et al			
	D322	6415138	2-Jul-2002	SIROLA et al			
	D323	6418323	9-Jul-2002	BRIGHT et al			
	D324	6422941	23-Jul-2002	THORNER et al			
	D325	6424356	23-Jul-2002	CHANG et al			
	D326	6438390	20-Aug-2002	AWAN			
	D327	6438392	20-Aug-2002	TOBA			
	D328	6445284	3-Sep-2002	CRUZ-HERNANDEZ et al			
	D329	6447069	10-Sep-2002	TERRIS et al			
	D330	6448977	10-Sep-2002	BRAUN et al			
	D331	6469695	22-Oct-2002	WHITE			
	D332	6473069	29-Oct-2002	GERPHEIDE			
	D333	6487421	26-Nov-2002	HESS et al			
	D334	6509892	21-Jan-2003	COOPER et al			
	D335	6518958	11-Feb-2003	MIYAJIMA et al			
	D336	6529122	4-Mar-2003	MAGNUSSEN et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 14 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D337	6535201	18-Mar-2003	COOPER et al			
	D338	6563487	13-May-2003	MARTIN			
	D339	6574489	3-Jun-2003	URIYA			
	D340	6606508	12-Aug-2003	BECKER et al			
	D341	6610936	26-Aug-2003	GILLESPIE et al			
	D342	6628195	30-Sep-2003	COUDON			
	D343	6636197	21-Oct-2003	GOLDENBERT et al			
	D344	6636202	21-Oct-2003	ISHMAEL, JR et al			
	D345	6639581	28-Oct-2003	MOORE			
	D346	6639582	28-Oct-2003	SHRADER			
	D347	6647145	11-Nov-2003	GAY			
	D348	6671618	30-Dec-2003	HOISKO			
	D349	6680729	20-Jan-2004	SHAHOIAN et al			
	D350	6690955	10-Feb-2004	KOMIYAMA			
	D351	6697043	24-Feb-2004	SHAHOIAN			
	D352	6723937	20-Apr-2004	ENGLEMANN et al			
	D353	6792294	14-Sep-2004	KUSHITA			
	D354	6822635	23-Nov-2004	SHAHOIAN et al			
	D355	6834373	21-Dec-2004	DIEBERGER			
	D356	6850150	1-Feb-2005	RONKAINEN			
	D357	6850781	1-Feb-2005	GOTO			
	D358	6876847	5-Apr-2005	KUDOH			
	D359	6882713	19-Apr-2005	SAKAI et al			
	D360	6885876	26-Apr-2005	AALTONEN et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 15 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D361	6940497	6-Sep-2005	VINCENT et al			
	D362	6944482	13-Sep-2005	ENGSTROM et al			
	D363	6982696	3-Jan-2006	SHAHOIAN			
	D364	7009595	7-Mar-2006	ROBERTS et al			
	D365	7061466	13-Jun-2006	MOORE			
	D366	7096045	22-Aug-2006	YOSHINAGA			
	D367	7103389	5-Sep-2006	SHIBATA			
	D368	7113177	26-Sep-2006	FRANZEN			
	D369	7149208	12-Dec-2006	MATTAWAY et al			
	D370	7151528	19-Dec-2006	TAYLOR et al			
	D371	7171191	30-Jan-2007	OLSON			
	D372	7215329	8-May-2007	YOSHIKAWA et al			
	D373	7218310	15-May-2007	TIERLING			
	D374	7225000	29-May-2007	KATAYANAGI			
	D375	7289796	30-Oct-2007	KUDOH			
	D376	7292227	6-Nov-2007	FUKUMOTO et al			
	D377	7312790	25-Dec-2007	SATO et al			
	D378	7328020	5-Feb-2008	MASUDA et al			
	D379	7336260	26-Feb-2008	MARTIN et al			
	D380	7336977	26-Feb-2008	KATAYANAGI			
	D381	7369115	6-May-2008	CRUZ-HERNANDEZ et al			
	D382	7373120	13-May-2008	MESSEL et al			
	D383	7424272	9-Sep-2008	HORIGUCHI			
	D384	7450110	11-Nov-2008	SHAHOIAN et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified) SHEET 16 OF 28	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D385	7463249	9-Dec-2008	KNOWLES et al			
	D386	7548232	16-Jun-2009	SHAHIOIAN et al			
	D387	7728820	1-Jun-2010	ROSENBERG et al			
	D388	2001-0044328	22-Nov-2001	TSUKAMOTO			
	D389	2002-0035854	6-Aug-2002	ROSENBERG et al			
	D390	2002-0039914	4-Apr-2002	HAMA et al			
	D391	2002-0107936	8-Aug-2002	AMON			
	D392	2002-0111737	15-Aug-2002	HOISKO			
	D393	2003-0002682	2-Jan-2003	SMITH et al.			
	D394	2003-0016211	23-Jan-2003	WOOLLEY			
	D395	2003-0022701	30-Jan-2003	GUPTA			
	D396	2003-0038776	27-Feb-2003	ROSENBERG et al			
	D397	2003-0045266	6-Mar-2003	STASKAL et al			
	D398	2003-0048260	13-Mar-2003	MATUSIS			
	D399	2003-0058265	27-Mar-2003	ROBINSON et al			
	D400	2003-0067440	10-Apr-2003	RANK			
	D401	2003-0071795	17-Apr-2003	BALDAUF et al			
	D402	2003-0095105	22-May-2003	VAANANEN			
	D403	2003-0128191	10-Jul-2003	STRASSER et al			
	D404	2003-0128192	10-Jul-2003	Van Os			
	D405	2003-0184574	2-Oct-2003	PHILLIPS et al			
	D406	2003-0236729	25-Dec-2003	EPSTEIN et al			
	D407	2004-0067780	8-Apr-2004	EIDEN			
	D408	2004-0204049	14-Oct-2004	HSU et al			

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified) SHEET 17 OF 28	

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

U.S. PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	FILING DATE
	D409	2005-0134561	23-Jun-2005	TIERLING et al			
	D410	2006-0248183	2-Nov-2006	BARTON			
	D411	2007-0299478	4-Oct-2007	ROSENBERG et al			

FOREIGN PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	COUNTRY	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	TRANSLATION	
*	D412	DE 19911416 US equivalent 6626358	DE	2-Nov-2000	BREIMESSER et al				
*	D413	EP 0062664	EP	20-Oct-1982	BUCKNAM				
*	D414	EP 0085518	EP	10-Aug-1983	HILL et al				
*	D415	EP 0265011	EP	27-Apr-1988	MEES et al				
*	D416	EP 0349086	EP	3-Jan-1990	VISSER				
*	D417	EP 0556999	EP	27-May-1998	NCR International, Inc. WINDSOR				
*	D418	EP 0607580	EP	27-Jul-1994	SELKER				
*	D419	EP 0626634	EP	30-Nov-1994	DOYAMA et al				
*	D420	EP 0875819	EP	4-Nov-1998	OSBORNE et al				
*	D421	EP 1182851	EP	27-Feb-2002	BECKER				
*	D422	JP 01-003664	JP	19-Jul-1990					
*	D423	JP 02-109714	JP	13-Jan-1992					
*	D424	JP 04-007371	JP	3-Aug-1993					
*	D425	JP 05-020226	JP	12-Mar-1993					
*	D426	JP 05-193862	JP	27-Jan-1995	Sega Corporation				
*	D427	JP 06-018341	JP	25-Jan-1994	NONAKA				
*	D428	JP 06-139018	JP	20-May-1994	TSUCHIKANE et al				

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 18 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

FOREIGN PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	COUNTRY	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	TRANSLATION	
*	D429	JP 06-265991 US equivalent 5557365	JP	22-Sep-1994	OSAWA				
*	D430	JP 07-064723	JP	10-Mar-1995	NAWATA				
*	D431	JP 07-113703	JP	2-May-1995	NONAKA				
*	D432	JP 07-266263	JP	17-Oct-1995	ASANO et al				
*	D433	JP 10-105337	JP	24-Apr-1998	HAHLGANS et al				
*	D434	JP 11-085400	JP	30-Mar-1999	OGASAWARA et al				
*	D435	JP 11-338629	JP	10-Dec-1999	MATSUDAIRA				
*	D436	JP 2001-350592	JP	21-Dec-2001	Ryo et al				
*	D437	JP 2002-259059 A	JP	13-Sep-2002	Motoyama et al				
*	D438	JP 63-164127	JP	26-Oct-1988					
*	D439	JPU 2511577	JP	9-Jul-1996					
*	D440	WO 1992/00559	WO	9-Jan-1992					
*	D441	WO 1995/32459	WO	30-Nov-1995	MARCUS et al.				
*	D442	WO 1996/28777	WO	19-Sep-1996	KEYSON				
*	D443	WO 1997/020305	WO	5-Jun-1997	TREMBLAY et al.				
*	D444	WO 1997/12357	WO	3-Apr-1997	ROSENBERG et al				
*	D445	WO 1997/18546	WO	22-May-1997	GERPHEIDE				
*	D446	WO 1997/21160	WO	12-Jun-1997	ROSENBERG et al				
*	D447	WO 1997/31333	WO	28-Aug-1997	TOMER				
*	D448	WO 1998/08159	WO	26-Feb-1998	KUBICA et al.				
*	D449	WO 1998/24183	WO	4-Jun-1998	SCHENA et al				
*	D450	WO 1998/58323	WO	23-Dec-1998	ROSENBEG et al				

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 19 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

FOREIGN PATENT DOCUMENTS

Examiner INITIAL	INDEX	DOCUMENT	COUNTRY	DATE	FIRST INVENTOR'S LAST NAME	CLASS	SUB.	TRANSLATION	
*	D451	WO 1999/40504	WO	12-Aug-1999	BARON et al				
*	D452	WO 2000/003319	WO	20-Jan-2000	WARREN et al				
*	D453	WO 2000/21071	WO	13-Apr-2000	SHAHIOIAN et al				
*	D454	WO 2002/12991	WO	14-Feb-2002	FUKUMOTO et al				
*	D455	WO 2002/27645	WO	4-Apr-2002	FRANZEN				
*	D456	WO 2002/31807	WO	18-Apr-2002	HWANG et al				

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D457	Adachi et al., "Sensory Evaluation of Virtual Haptic Push-Buttons," 1994, Suzuki Motor Corp., pp. 1-7.
*	D458	ADELSTEIN, "A Virtual Environment System For The Study of Human Arm Tremor," Ph.D. Dissertation, Dept. of Mechanical Engineering, MIT, June 1989.
*	D459	ADELSTEIN, "Design and Implementation of a Force Reflecting Manipulandum for Manual Control research," DSC-Vol. 42, Advances in Robotics, Edited by H. Kazerooni, pp. 1-12, 1992.
*	D460	Adelstein, et al., "A High Performance Two-Degree-of-Freedom Kinesthetic Interface," MIT, 1992, pp. 108-112.
*	D461	Akamatsu et al., "Multimodal Mouse: A Mouse-Type Device with Tactile and Force Display," 1994, Presence vol. 3, pp. 73-80.
*	D462	Atkinson et al., "Computing with Feeling," Comput. & Graphics, vol. 2, 1977, pp. 97-103.
*	D463	AUKSTAKALNIS et al., "Silicon Mirage: The Art and Science of Virtual Reality," ISBN 0-938151-82-7, pp. 129- 180, 1992.
*	D464	BAIGRIE, "Electric Control Loading - A Low Cost, High Performance Alternative," Proceedings, pp. 247-254, November 6-8, 1990.
*	D465	Batter et al., "Grobe-1: A computer Display to the sense of Feel," Proc IFIP Congress, 1971, pp. 759-763.
*	D466	BEJCZY, "Generalization of Bilateral Force-Reflecting Control of Manipulators," Proceedings Of Fourth CISM- IFToMM, Sep. 8-12, 1981.
*	D467	BEJCZY, "Sensors, Controls, and Man-Machine Interface for Advanced Teleoperation," Science, Vol. 208, No. 4450, pp. 1327-1335, 1980.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 20 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D468	BEJCZY et al., "A Laboratory Breadboard System For Dual-Arm Teleoperation," SOAR '89 Workshop, JSC, Houston, TX, July 25-27, 1989.
*	D469	BEJCZY et al., "Kinesthetic Coupling Between Operator and Remote Manipulator," International Computer Technology Conference, The American Society of Mechanical Engineers, San Francisco, CA, August 12-15, 1980.
*	D470	BEJCZY, et al., "Universal Computer Control System (UCCS) For Space Telerobots," CH2413- 3/87/0000/0318501.00 1987 IEEE, 1987.
*	D471	Bejezy et al., "The Phantom Robot: Predictive Displays for Teleoperation with Time Delay," IEEE CH2876, Jan. 1990, pp. 546-550.
*	D472	Bliss, James C., "Optical-to-Tactile Image Conversion for the Blind," IEEE Transactions on Man-Machine Systems, Volume MMS-11, no. 1, 1970, pp. 58-65.
*	D473	Bolanowski, S.J. et al., "Four Channels Mediate the Mechanical Aspects of Touch," J. Acoust. Soc. Am. 84 Volume 84 (5), November 1988, pp. 1680-1694.
*	D474	BROOKS et al., "Hand Controllers for Teleoperation - A State-of-the-Art Technology Survey and Evaluation," JPL Publication 85-11; NASA-CR-175890; N85-28559, pp. 1-84, 03/1/1985.
*	D475	Brooks, Jr. et al., "Project GROPE, Haptic Displays for Scientific Visualization," Computer Graphics, vol. 24, #4, 1990, pp. 177-184.
*	D476	BURDEA et al., "Distributed Virtual Force Feedback, Lecture Notes for Workshop on Force Display in Virtual Environments and its Application to Robotic Teleoperation," 1993 IEEE International Conference on Robotics and Automation, pp. 25-44, 05/02/1993.
*	D477	BUTTOLO et al., "Pen-based force Display for Precision Manipulation in Virtual Environments," IEEE 0-8186-7084-3, 1995, pp. 217-224.
*	D478	CALDER, "Design of A Force-Feedback Touch-Introducing Actuator For Teleoperator Robot Control," Bachelor of Science Thesis, MIT, June 23, 1983.
*	D479	CALDWELL et al., "Enhanced Tactile Feedback (Tele-Taction) Using a Multi-Functional Sensory System," 10504729/93, pp. 955-960, 1993.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 21 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (1103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D480	CHANG "Audio-Haptic Feedback in Mobile Phones", Proceedings of AMC CHI 2005 Conference on Human Factors in Computing Systems, April 2-7, 2005, Portland, Oregon, pp. 1264-1267, 2005
*	D481	Colgate et al., "Implementation of Stiff Virtual Walls in Force-Reflecting Interfaces," Northwestern University, IL, 1993., pp. 1-8.
*	D482	Dennerlein et al., "Vibrotactile Feedback for Industrial Telemanipulators," 1997, Sixth Annual Symp. On Haptic Interfaces for Virtual Env. And Teleoperator Systems, ASME IMECE, Dallas, pp. 1-7.
*	D483	Dennerlein, Jack et al., "Commercialization of Vibrotactile Feedback for Telemanipulation and Virtual Environments," 1997, Phase I Final Report for ONR Contract N00014-96-C-0325 (not published or publicly available).
*	D484	Durlach, Nathaniel I. ET AL, "Virtual REALITY: Scientific and Technological Challenges", National Academy Press, Washington, DC 1995 pp. 160-205
*	D485	Eberhardt, Silvio P. et al., "Inducing Dynamic Haptic Perception by the Hand: System Description and Some Results," Proceedings of ASME Dynamic Systems and Control, Vol. DSC-55-1, No. 1, 1994, pp. 345-351.
*	D486	Eberhardt, Silvio P. et al., "OMAR - A Haptic Display for Speech Perception by Deaf and Deaf-Blind Individuals," IEEE 1993, pp. 195-201.
*	D487	Ellis et al., Design & Evaluation of a High-Performance Prototype Planar Haptic Interface, Dec. 1993, Advances in Robotics, 55-64.
*	D488	Fischer, et al., "Specification and Design of Input Devices for Teleoperation," IEEE CH2876, Jan. 1990, pp. 540-545.
*	D489	FOKUMOTO, "Active Click: Tactile Feedback For Touch Panels," ACM CHI2001 Extended Abstracts, pp. 121- 122, April 2001.
*	D490	Friskin-Gibson, Sarah F. et al, "A 64-Solenoid, Four-Level Fingertip Search Display for the Blind," IEEE Transactions on Biomedical Engineering, Vol. BME-34, No. 12, December 1987, pp. 963-965.
*	D491	FUKUHARA ET AL, Voice Café: Conversation Support System in a Gourp, 2001, IOS Press, Pages 334 and 335
*	D492	GOBEL et al., "Tactile Feedback Applied to Computer Mice," International Journal of Human-Computer Interaction, Vol. 7, No. 1, pp. 1-24, 1995.
*	D493	Goldstein, Moise H. et al., "Tactile Aids for the Profoundly Deaf Child," 77 J. Acoust. Soc. Am 77 (1), January 1985, pp. 258-265.
*	D494	GOTOW et al., " Controlled Impedance Test Apparatus for Studying Human Interpretation of Kinesthetic Feedback," WA11-11:00, pp. 332-337
*	D495	Gotow et al., "Perception of Mechanical Properties at the Man—Machine Interface," IEEE CH2503-1, 1987, pp. 688-690.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 22 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D496	Hannaford et al., "Force-Feedback Cursor Control," NASA Tech Briefs, vol. 13, No. 11, 1989, pp. 1-7.
*	D497	Hannaford et al., "Performance Evaluation of a 6-Axis Generalized Force-Reflecting Teleoperator," IEEE Transactions on Systems, Man, and Cybernetics, vol. 21, No. 3, 1991, pp. 621-623, 631-633.
*	D498	Hasser, C., "Tactile Feedback for a Force-Reflecting Haptic Display," School of Eng., Univ. of Dayton, Dayton, OH, 1995, pp. 1-98.
*	D499	Hasser, C. et al., "Tactile Feedback with Adaptive Controller for a Force-Reflecting Haptic Display," Parts 1 and 2, IEEE 0-7803-3131-1, 1996, pp. 526-533.
*	D500	Hirota et al., "Development of Surface Display," IEEE 0-7803-1363-1, 1993, pp. 256-262.
*	D501	HOWE, "A Force-Reflecting Teleoperated Hand System for the Study of Tactile Sensing in Precision Manipulation," Proceedings of the 1992 IEEE International Conference on Robotics and Automation, Nice, France, May 1992.
*	D502	Howe et al., "Task Performance w/ a dextrous Teleoperated Hand System," Proc. of SPIE, vol. 1833, 1992, pp. 1-9.
*	D503	IBM Technical Disclosure Bulletin, "Mouse Ball-Actuating Device With Force and Tactile Feedback," Vol. 32, No. 9B, February 1990.
*	D504	IWATA, "Pen-based Haptic Virtual Environment," 0-7803-1363-1/93 IEEE, pp 287-292, 1993.
*	D505	Iwata, Hiroo, "Artificial Reality with Force-feedback: Development of Desktop Virtual Space with Compact Master Manipulator," Computer Graphics, vol. 24, No. 4, Aug. 1990, pp. 165-170.
*	D506	JACKSON, K. M., "Linearity of Radio-Frequency Transducers", Medical and Biological Engineering and Computer, July 1977, pp. 446-449
*	D507	JACOBSEN et al., "High Performance, Dextrous Telerobotic Manipulator With Force Reflection," IntervenorVROV '91 Conference & Exposition, Hollywood, Florida, May 21-23, 1991.
*	D508	JOHNSON, David A., "Shape-Memory Alloy Tactile Feedback Actuator," Armstrong Aerospace Medical Research Laboratory, AAMRL-TR-90-039, August 1990. (Tini Allow Company, Inc., August 1990, 2 pages, pp. i-33)
*	D509	JONES et al., "A perceptual analysis of stiffness," ISSN 0014-4819 Springer International (Springer-Verlag); Experimental Brain Research, Vol. 79, No. 1, pp. 150-156, 1990.
*	D510	Kaczmarek, K. A. et al. "Tactile Displays," in: Virtual Environments and Advanced Interface Design, New York: Oxford University Press, 1995, pp. 349-414.
*	D511	Kaczmarek, Kurt A. et al, "Electrotactile and Vibrotactile Displays for Sensory Substitution Systems", IEEE Transactions on Biomedical Engineering, Vol. 38, No. 1, January 1991, pp. 1-16.
*	D512	Kelley et al., "MagicMouse: Tactile and Kinesthetic Feedback in the Human—Computer Interface using an Electromagnetically Actuated Input/Output Device," Oct. 19, 1993 University of British Columbia pp. 1-27.
*	D513	Kelley et al., "On the Development of a Force-Feedback Mouse and its Integration into a graphical user Interface," Nov. 1994, Engineering Congress and Exhibition, pp. 1-8.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 23 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D514	Kilpatrick et al., "The Use of Kinesthetic Supplement in an Interactive Graphics System," University of North Carolina, 1976, pp. 1-172.
*	D515	KONTARINIS et al., "Display of High-Frequency Tactile Information to Teleoperators," Telemanipulator Technology and Space Telerobotics, Won S. Kim, Editor, Proc. SPIE Vol. 2057, pp. 40-50, Sep. 7-9, 1993.
*	D516	KONTARINIS et al., "Tactile Display of Vibratory Information in Teleoperation and Virtual Environments," PRESENCE, 4(4):387-402, 1995.
*	D517	Kotoku, "A Predictive Display with Force Feedback and its Application to Remote Manipulation System with Transmission Time Delay," Proc. of IEEE/RSJ Int'l Conf. On Intelligent Robots and Systems, Jul. 1992.
*	D518	Kotoku, et al., "Environment Modeling for the Interactive Display (EMID) Used in Telerobotic Systems," IEEE/RSJ Int'l Workshop on Intelligent Robots and Systems, Nov. 1991, pp. 999-1004.
*	D519	LAKE, "Cyberman from Logitech," GameBytes, 1994.
*	D520	"Cyberman Technical Specification," Logitech Cyberman SWIFT Supplement, 4/5/1994. cited by other.
*	D521	MARCUS, "Touch Feedback in Surgery," Proceedings of Virtual Reality and Medicine The Cutting Edge, Sep. 8- 11, 1994.
*	D522	MCAFFEE ET AL, 'Teleoperator Subsystem/Telerobot Demonstrator: Force Reflecting Hand Controller Equipment Manual," JPL D-5172, pp. 1- 50, A1-A36, B1-B5, C1-C36, January 1988.
*	D523	Millman et al., "Design of a 4 Degree of Freedom Force-Reflecting Manipulandum with a Specified Force/Torque Workspace," IEEE CH2969-4, 1991, pp. 1488-1493.
*	D524	MINSKY, "Computational Haptics: The Sandpaper System for Synthesizing Texture for a Force-Feedback Display," Ph.D. Dissertation, MIT, June 1995.
*	D525	Minsky et al., "Feeling & Seeing: Issues in Force Display," ACM089791-351-5, 1990, pp. 235-242, 270.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 24 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D526	Munch et al., "Intelligent Control for Haptic Displays," Eurographics '96, vol. 15, No. 3, 1996, pp. 217-226.
*	D527	Noll, "Man-Machine Tactile," SID Journal, Jul./Aug. 1972 Issue.
*	D528	OUH-YOUNG, "Force Display in Molecular Docking," Order No. 9034744, p. 1-369, 1990.
*	D529	OUH-YOUNG, "A Low-Cost Force Feedback Joystick and Its Use in PC Video Games," IEEE Transactions on Consumer Electronics, Vol. 41, No. 3, August 1995.
*	D530	OUH-YOUNG et al., "The Development of A Low-Cost Force Feedback Joystick and Its Use in the Virtual Reality Environment," Proceedings of the Third Pacific Conference on Computer Graphics and Applications, Pacific Graphics '95, Seoul, Korea, 21-24 August 1995.
*	D531	Ouh-Young et al., "Creating an Illusion of Feel: Control Issues in Force Display," Univ. of N. Carolina, 1989, pp. 1-14.
*	D532	Ouh-young, et al., Using a Manipulator for Force Display in Molecular Docking, IEEE CH2555, 1988, pp. 1824-1829.
*	D533	PATRICK et al., "Design and Testing of A Non-reactive, Fingertip, Tactile Display for Interaction with Remote Environments," Cooperative Intelligent Robotics in Space, Rui J. deFigueiredo et al., Editor, Proc. SPIE Vol. 1387, pp. 215-222, 1990.
*	D534	PATRICK, "Design, Construction, and Testing of a Fingertip Tactile Display for Interaction with Virtual and Remote Environments," Master of Science Thesis, MIT, Nov. 8, 1990.
*	D535	Payette et al., "Evaluation of a Force Feedback (Haptic) Computer Printing Device in Zero Gravity," Oct. 17, 1996, ASME Dynamics Systems, vol. 58 pp. 547-553.
*	D536	Peine, W.J., "Tactile Shape Displays for Small Scale Shape Feedback," http://www.hrl.harvard.edu/peine/display.html , 1998, pp. 1-2.
*	D537	PIMENTEL et al., "Virtual Reality: through the new looking glass," 2nd Edition; McGraw-Hill, ISBN 0-07-050167-X, pp. 41-202, 1994.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 25 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D538	Rabinowitz, W. M. et al., "Multidimensional Tactile Displays: Identification of Vibratory Intensity, Frequency, and Contactor Area," J. Acoust. Soc. Am. 82 (4), October 1987, pp. 1243-1252.
*	D539	Ramstein, Christophe, "Combining Haptic and Braille Technologies: Design Issues and Pilot Study," Assets '96, 2nd Annual ACM Conference on Assistive Technologies, ACM SIGGRAPH, Apr. 1996, pp. 37-44.
*	D540	RAMSTEIN et al., "The Pantograph: A Large Workspace Haptic Device for a Multimodal Human—Computer Interaction," Computer—Human Interaction, CHI 1994, pp. 1-3.
*	D541	ROSENBERG, "Virtual Fixtures: Perceptual Overlays Enhance Operator Performance in Telepresence Tasks," Ph.D. Dissertation, Stanford University, June 1994
*	D542	Rosenberg, L., "Virtual fixtures as tools to enhance operator performance in telepresence environments," SPIE Manipulator Technology, 1993, pp. 1-12.
*	D543	Rosenberg et al., "A Force Feedback Programming Primer," Immersion Corp., 1997, pp. 1-176.
*	D544	Rosenberg et al., "Commercially Viable force feedback Controller for Individuals with Neuromotor Disabilities," Armstrong Laboratory, AL/CF-TR-1997-0016, 1996, pp. 1-33.
*	D545	Rosenberg et al., "Perceptual Decomposition of Virtual Haptic Surfaces," Proc. IEEE Symposium on Research Frontiers in Virtual Reality, 1993, pp. 1-8.
*	D546	Rosenberg et al., "The use of force feedback to enhance graphical user interfaces," Stereoscopic Displays & Virtual Reality Systems, 1996, pp. 243-248.
*	D547	Rosenberg, "Perceptual Design of a Virtual Rigid Surface Contact," Armstrong Laboratory AL/CF-TR-1995-0029, 1993, pp. 1-45.
*	D548	Rosenberg, "Virtual Haptic Overlays Enhance Performance in Telepresence Tasks," Dept. of Mech. Eng., Stanford Univ., 1994.
*	D549	Rosenberg, et al., "The Use of Force Feedback to Enhance Graphical User Interfaces," Proc. SPIE 2653, 1996, pp. 243-248.
*	D550	RUSSO, "Controlling Dissipative Magnetic Particle Brakes in Force Reflective Devices," DSC-Vol. 42, Advances in Robotics, pp. 63-70, ASME 1992.
*	D551	RUSSO, "The Design and Implementation of a Three Degree of Freedom Force Output Joystick," MIT Libraries Archives 08/14/1990, pp. 1-131, May 1990.
*	D552	SCANNELL, "Taking a Joystick Ride," Computer Currents, Boston Edition, Vol. 9, No. 11, November 1994.
*	D553	SCHMULT et al., "Application Areas for a Force-Feedback Joystick," 1993, Advances in Robotics, vol. 49, pp. 47-54.
*	D554	"Component Maintenance Manual with Illustrated Parts List, Coaxial Shaker Part No. C-25502", Safe Flight Instrument Corporation, Revised 28 Jan 2002 (3 pages)
*	D555	"Technical Manual Overhaul Instructions With Parts Breakdown, Coaxial Control Shaker Part No. C-25502", Safe Flight Instrument Corporation, revised 15 July 1980 (23 pages)

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 26 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D556	Safe Flight Instruments Corporation, "Coaxial Control Shaker," Part No. C-25502, 1 July 1967.
*	D557	SHIMOGA, "Finger Force and Touch Feedback Issues in Dexterous Telemanipulation," Proceedings of Fourth Annual Conference on Intelligent Robotic Systems for Space Exploration, Rensselaer Polytechnic Institute, Sep. 30 - Oct. 1, 1992.
*	D558	Force Feedback Touch Panel, Represented by CSC Division, Sales Department, SIXIK Corporation, Tokyo, Japan, www.smk.co.jp. cited by other .
*	D559	SMK Corporation, "Force Feedback Type Optical Touch Panel Developed," SMK Corporation Website, October 30, 2002
*	D560	SMK Corporation, "Multi-Functional Touch Panel, Force-Feedback Type, Developed: A Touch Panel Providing a Clicking Feeling," http://www.smk.co.jp/whatsnew_e/628csc_e.html , September. 30, 2002.
*	D561	SNOW et al., "Model-X Force-Reflecting-Hand-Controller," NT Control No. MPO-17851; JPL Case No. 5348, pp. 1-4, 06/15/1989.
*	D562	STANLEY et al., "Computer Simulation of Interacting Dynamic Mechanical Systems Using Distributed Memory Parallel Processors," DSC-Vol. 42, Advances in Robotics, pp. 55-61, ASME 1992.
*	D563	SU et al., "The Virtual Panel Architectures: A 3D Gesture Framework," University of Maryland, pp. 387-393.
*	D564	TADROS, "Control System Design for a Three Degree of Freedom Virtual Environment Simulator Using Motor/Brake Pair Actuators", MIT Archive © Massachusetts Institute of Technology, pp. 1-88, February 1990.
*	D565	TAN et al., "Manual Resolution of Compliance When Work and Force Cues are Minimized," DSC-vol. 49, Advances in Robotics, Mechatronics, and Haptic Interfaces, ASME 1993, pp. 99-104.
*	D566	TERRY et al., "Tactile Feedback In A Computer Mouse," Proceedings of Fourteenth Annual Northeast Broengineering Conference, University of New Hampshire, March 10-11, 1988.
*	D567	WIKER, "Teletouch Display Development: Phase 1 Report," Technical Report 1230, Naval Ocean Systems Center, San Diego, Apr. 17, 1989. cited by other.

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
Form SB/08 (modified)	SHEET 27 OF 28

INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Application No.:	10/538,164
	Filing Date:	March 18, 2008
	First Named Inventor	Danny A. GRANT et al
	Art Unit	2629
	Examiner Name:	LIANG, REGINA
	Attorney Docket No.:	IMM152E (I103 1940US.5)

OTHER DOCUMENTS

Examiner INITIAL	INDEX	CITATION
*	D568	Wiker, Steven F., "Teletouch Display Development: Phase 1 Report," Naval Ocean Systems Center, Technical Report 1230, July 1988, 66 pages.
*	D569	Wiker, Steven F. et al., "Development of Tactile Mice for Blind Access to Computers: Importance of Stimulation Locus, Object Size, and Vibrotactile Display Resolution," Proceedings of the Human Factors Society 35th Annual Meeting, 1991, pp. 708-712.
*	D570	WINEY III, "Computer Stimulated Visual & Tactile Feedback as an Aid to Manipulator & Vehicle Control," MIT, 1981, pp. 1-79.
*	D571	YAMAKITA et al., "Tele-Virtual Reality of Dynamic Mechanical Model," Proc. of IEEE/RSJ Int'l Conf. On Intelligent Robots and Systems, Jul. 1992, pp. 1103-1110.
*	D572	YOKOKOJI, et al., "What You Can See is What You Can Feel—Development of a Visual/Haptic Interface to Virtual Environment," Proc. VRAIS 1996.
*	D573	YOKOKOJI et al., "What you can see is what you can feel," IEEE 0-8186-7295-1, 1996, pp. 46-54.
*	D574	ISR/WO - PCT/US06/35645 - dated 06/23/08
*	D575	IPRP PCT/US2005/036861 mailed 02/23/2006
*	D576	ISR/WO - PCT/US2005/036861 mailed 02/23/2006

EXAMINER	DATE CONSIDERED
Initial if a citation is considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.	
<div style="display: flex; justify-content: space-between;"> Form SB/08 (modified) SHEET 28 OF 28 </div>	